

MICA ML-800 ATEX / ML-800 ATEX EM TECHNICAL DATA

MODEL	ML-800 ATEX, ML-800 ATEX EM
Product description	ML-800 ATEX Rechargeable safety hand lamp
	ML-800 ATEX EM Rechargeable emergency safety lamp
Code	II 2 GD Ex op is IIC T4
	Ex iD 21 T130°C
Apparatus standards	EN60079-0 (2006)
	EN60079-11 (2007)
	EN60079-28 (2007)
	EN60241-0 (2006)
	EN60241-11 (2006)
Type of protection	"is" intrinsic safety
Area of classification G (Gas)	Zones 1 and 2
	Gas groups IIA, IIB, IIC
Area of classification D (Dust)	Zones 21 and 22
Temp. classification	T4
Operating temperature	-20°C +40°C
Certification	VTT 04 ATEX 062X
	EMC Directive 89/336/EEC
	Directive 94/9/EEC
Enclosure	Antistatic polypropylene + aluminium
Colour	Yellow + black
Lens	Toughened glass (3mm)
Beam type	Spot
Light source:	1W or 3W LUXEON LED, Side emitting, narrow beam
	Lifetime 50 000hrs
	Illumination
	1W high-luminous LED 45lm 1312lx @ 1m
	3W high-luminous LED 65lm 2670lx @ 1m
Power source:	6V 1,8Ah rechargeable NiMH battery
	After 500 charging cycles 80% capacity left
Light duration	1W 7 hours, 3W 3 hours
Ingress protection	IP 66
Weight with battery	0,37 kg
Dimensions	120 x 63 x 54mm
Other features:	- Deep discharge prevention
	- Capacity indicator
	- Two-step low battery warning
	- NATO-number: 6230-17-1179047 (1W LED)
Chargers	Single charger MICA MLC , charging time 2 h 30 mins
Accessories	MICA IL-2 Mains adapter 230VAC
	MICA CR-15 Power supply for max. 10 MLC chargers
	MICA CR-13 Power supply for max. 6 MLC chargers





MICA HL-800 ATEX

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Ex eib op is IIC T4 Ex I IEC 62013-1

Certificate: VTT 02 ATEX 013 X

60079-28 (2007), EN 62013-1 (2006). The design and manufacture of the lamp is compliant to European standards CENELEC EN 60079-0 (2006), EN 60079-7 (2007), EN 60079-11 (2007), EN

MICA HL-800 ATEX SAFETY INSTRUCTIONS

Before use:

- All preparations (including cleaning) must always perform before entering inside potentially explosive environments. The charger (MICA HC-41 or MICA-42) must be mounted outside the environments is prohibited potentially explosive athmosphere. Charging the lamp battery inside potentially explosive

- HB-800 battery is the only allowable power source for MICA HL-800 ATEX lamp.
- HB-800 battery may not be charged in an EX hazardous area
- HB-800 battery may be charged with MICA HC-41 or MICA HC-42 charger only.
- HB-800 battery may be changed inside an EX hazardous area.
- Check that your MICA HL-800 ATEX lamp is certified for use in your work location
- Make sure that lamps's protection class is sufficent to environment where lamp is used

Maintenance:

- Do not open the reflector housing (secured with a allen socket screw) inside an EX-hazardous
- User-serviceable parts are limited to those listed in the spare part list.
- Under no circumstances do not attempt to service or change the electronics unit.
- In case of malfunction, read the User's Manual and contact your MICA distributor

WARRANTY

by an authorized MICA service agent only. For after-sales service, contact your local MICA dealer. Your MICA lamp, battery and charger are guaranteed for one year from date of purchase against all defects in materials and workmanship. During the warranty period, these units may be serviced

For more information on Mica Elektro or the product lines, please visit our internet website:

EC DECLARATION OF CONFIRMITY

manufactured in accordance with the following standards/directives We hereby declare that the product described below has been designed and -EMC directive 89/336/EC -Directive 94/9/EC Equipment (ATEX) for use in potentially explosive atmospheres

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Manufacturer:	MICA ELEKTRO OY LTD.
	Höyläämötie 11 A
	FIN-00380 HELSINKI, Finland
	phone:+358-9-561 7666 fax:+358-9-561 76688
	email: info@mica.eu www.mica.eu
Product name, model, serial	Mica Halogen HL-800 ATEX
number, year of manufacture:	Serial number (in eight digits) and year of
	manufacture marked on the ID tag.
Certificate number:	VTT 02 ATEX 013X
Product type:	Rechargeable head/helmet lamp

 \circledcirc 10-2009 MICA ELEKTRO OY LTD We reserve the right to change information given in this manual at any time.

Åke Smolander, Managing director MICA ELEKTRO OY LTD.

Helsinki, Jan. 30, 2009

mica - halogen HL-800 ATEX USER'S GUIDE

the useful life of your MICA lamp. Please read this user's guide carefully and store it for future, since proper handling will prolong



email: info@mica.eu internet: www.mica.eu tel:+358-9-5617 666 fax:+358-9-5617 6688 Mica Elektro Oy Ltd. P.O.B. 42, FIN-00381 Helsinki

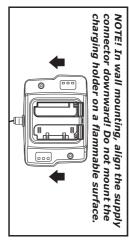


HL-800 ATEX USER'S GUIDE

beam angle (see Bulb change). electronics will automatically turn off the lamp to prevent battery deep-discharge. When necessary, adjust the low battery. At the start of blinking the bulb, about 10 min of operating time remains. After that, the control rotary knob on the left side of the lamp. In the HL series lamps, blinking of the beam at 15 s intervals indicates of the lamp functions as a switch (secondary LED / Main beam / OFF). The beam angle can be adjusted by the Before use check that the battery is fully charged and connected to the lamp. The rotary knob on the right side

affixed on a helmet with rubber bands and plastic hooksand) a helmet clip model. Main beam is 1W LED bulb or 2.4W Halogen bulb. When ordering spare parts, pay attention to specify a correct lamp version. The HL-800 series is manufactured in three versions: a headband model, a helmetband model (a special design

two versions: type HC-41 charging holder is available in A table/wall-mounted HC-42 (two-battery version). (single-battery version) or



BATTERY CARE

For long life, the battery must be charged fully prior to its first use, as well as after a full discharge. A new battery needs about 10 full charge/discharge cycles to gain its full capacity. Charging within an explosion hazard space is absolutely forbidden! The HB-800 battery must always be charged in an original HC-41/42 charging holder.

BATTERY CHARGING

NOTE! After use in the lamp, the battery should always be stored in its charging holder. **NOTE!** The supply voltage to the charging holder may not be interrupted by a timer or similar device battery (supply voltage of 12...30VDC). Fast-charging a fully exhausted HB-800 battery takes less than two hours about 650mA. It can be supplied from the mains using either the MICA IL-2, MICA IL-10, MICA CR or the vehicle The charging holder can be used at an operating temperature of +5°C ...+40°C. The fast-charging current is

supply voltage to the battery charging holder is properly connected. If there is no battery in the charging holder and the yellow LED indicator is on, the supply voltage is too low. The charging holder has a quick-disconnect for supply voltage input. When the green LED indicator is on, the

during charging, the charger will stop charging (red LED turns on) until the battery temperature falls sufficiently will automatically switch to trickle charging (green LED turns on). If the battery temperature rises excessively thereon, the control circuit optimizes the charging parameters to bring the battery to the correct temperature $(+5^{\circ}\text{C}...+40^{\circ}\text{C})$ and voltage. If the battery temperature is under $+5^{\circ}\text{C}$ or over $+40^{\circ}\text{C}$ or the battery has been the battery is ready for fast charge (yellow LED turns on). When charging at full current is completed, the charger exhausted down to a deep-discharge, charging will begin at a low trickle charge current (red LED turns on) until The intelligent control circuit of the HC-41/42 starts the charge cycle by a battery condition analysis. Based

reset by disconnecting the supply voltage (see legend of LED indications). the battery is removed from the charging holder. Prior to the next charging cycle, the charging holder must be If the battery is defective or overheated, charging will be interrupted and the red LED remains lit even when

BULB CHANGE (1W LED or 2,4W Halogen)

changing the bulb or reflector, avoid scratching them and immediately wipe away any stains using tissue paper by turning the locking ring clockwise and check with the reflector until the beam pattern is as desired. When and spirits. The secondary LED lamp may be replaced only by an authorized MICA service agent. using a 11mm wrench tool. Change the bulb and tighten in place with the locking ring. Adjust the beam angle (with a 2.5mm Allen key). Remove the glass lens, rubber seal and reflector. Open the bulb/1W LED locking ring Use only spare parts supplied by MICA as a replacement. First unscrew the locking screw of the lamp collar ring

Operating times:

Using the secondary LED lamp only, the operating time is over 1 day. With 1W LED bulb is 7h and with 2.4W Halogen 3h 10min.

Green LED Legend of LED indications on HC-41/42 charger Power on (without battery)

Green LED 100% charged (battery inserted)

Yellow LED Too low input voltage (without battery)

Yellow LED Fast charging (battery inserted)

Red LED Red LED Remains lit (even after battery removal) for a defective or excessively Charging parameters off limits (battery inserted) heated battery. To reset the control circuit, disconnect supply voltage temporarily.

NOTE

may cover only the change of the spare parts listed under the drawing. Servicing of MICA HL-800 by the user is limited to the operations described above and



SPARE PARTS FOR HL-800 ATEX LAMP:

H0032_1 H0032_5 Halogen Bulb (2.4W) 1W LED Bulb

H0033_: H0044_1 H0035_ Reflector with oval ring Bulb locking ring

ωΝ

H0047_1 H0046_4 H0044_2 Rubber band set (helmetband) Clamp frame and helmetband Plastic hooks for helmetband Rubber band set (headband)

H0046 H0046_6 Clamp frame and helmet Clamp frame and headband

H0031_ H0036_ H0061_ H0066_ H0040_1 H0065_ Switch and adjustment Locking ring & locking screw Cover assembly O-ring for battery case HB-800 Spare battery Lens and seal

5 7 9 10

SPARE PARTS FOR HC-41/42 CHARGER

assemblies

H0022_ H0025 H0024_: H0023_ H0021_1 Printed circuit board (PCB) Bottom plate Cable set with connector casing and adnesive tapes PCB mounting posts (8 pcs.)

TECHNICAL SPECIFICATIONS HL-800 LAMP

Protection class: Weight: Operating temperature: -20°C ...+40°C 510g

6V / 1W LED (Px13.5) (lamp 375g + battery 135g) 6V / 2.4W halogen (Px13.5)

HB-800 BATTERY (spare)

Voltage Capacity 9 NiMH battery 1350mAh

HC-41/42 CHARGING UNIT

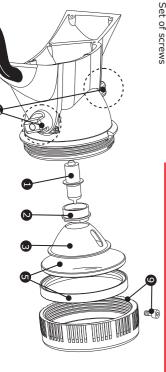
Weight:

Input voltage: Operating temperature: +5°C ...+40°C 12...30VDC

Dimensions: Protection class: Charging current: 650mA automatically controlled

152mm x 115mm x 60mm

always tell the model/type and serial number of your lamp and/or charger. NOTE! When ordering spare parts please



Y1452F

Intelligent MICA chargers for IL-lamps

MICA ILC-VAC & ILC chargers keep the lamp ready for use and will not overcharge the battery. The aluminum construction and tight fit will keep the lamp secure in rough conditions. Lamps can be stored in their chargers.

changes input automatically. directly into a vehicle battery (12...24VDC) or to the mains with an IL-2 adapter. The MICA charger range also includes VAC/VDC chargers that can be fed from a vehicle battery and/or the mains and it MICA VAC chargers are fed directly from the mains (85...264VAC). Other models can be connected

With multi-station MICA CR charger racks, you can fit your lamp/battery charger bay into a more

Charging systems! compact space with minimum installation time. Ask for further information about other MICA

MICA ILC-3 and IL-2

MICA ILC-VAC









MICA CR-C3 VAC

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Bright tools for professionals since 1983

4

flashlights are used by top professionals around the world. Only the best quality components that of the leading rechargeable light manufacturers in Europe. Every day hundreds of thousands MICA meet European standards are approved for use in MICA products. Production quality is guaranteed MICA lamps are designed and manufactured in Finland by Mica Elektro Oy Ltd. The company is one by our ISO 9001:2008 certificate.

























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MICA IL series -when second best is not an option!

glass lens. With the wide selection of battery types, different light sources and other special functions, it is easy to combine a perfect MICA set to all applications. The IL series is developed together with professional users around the reliability and technology. The super tough nylon body is basically unbreakable and it also boasts a special hardened The extremely robust IL-series handlamps are acknowledged as the leading product in the market in terms of durability

MICA offers a wide range of ATEX / IECEx -certified safety lamps from pocket-sized torches to lanterns and helmetlamps. The most hazardous ZONE 0 areas are also covered by rechargeable MICA lights. MICA Ex-lamps are extremely powerful world, and it will not let you down when you need it most.



See all colours with MICA CRI-90+ LEDs!

with a long operating time. Certificates from: TÜV, VTT, Inmetro and Gost-Ex.

colour shades are revealed. The CRI scale indicates how accurate a light source is at rendering colour when compared accurate colour discrimination. to daylight. MICA CRI-90+ models have a minimum of CRI-90, which is considered to be excellent for tasks requiring Colour rendering indicates how a light source makes colour appear to human eyes and how well slight variations in



Handlamps with EM function

Emergency lighting is often forgotten until an accident happens. During a power failure, a MICA lamp with EM function will light up and provide light for the area in front of it. The lamp automatically turns off when returned to the charger and/or the power returns. In addition to this special function, MICA EM lights can be used normally as a professional flashlight.



Details and Accessories









MICA lamps are designed and manufactured in Finland by Mica Elektro Oy Ltd



The true light cannon with extra boost power mode. MICA IL-6000 GT

MICA IL-600

MICA IL-60 LED

1L-60 Halogen lamps are in use daily around the world. MICA IL-60 Halogen

Product number: NiMH battery model 11281 NiCd battery model 11240

ith three

Product number: NiMH battery model 13750 NiCd battery model 13760

Product number:NiMH battery model 13700

Product number: NiMH battery model 11400 NiCd battery model 11401

Dimensions: 215 x 120 x 120

With super boost +50% !

Lumens: High 500 Lumens Low 120 Lumens

Lumens: High 120 Lumens Low 60 Lumens

Up to 550 Lumens Light source: 6W, 10W, 20W or 30W Halogen

.20 Lumens

Weight: 1400 grams

Dimensions: 215 x 120 x 120

Dimensions: 215 x 120 x 120

Light source: Ultra-bright LED

nt source: Ultra-bright LED

Battery Duration with NiMH Battery: High power 5 HoursLow power 24 Hours

Battery Duration with NiMH Battery:

power 8 Hours power 24 Hours

Battery Duration with NiMH Battery: •High power 24 Hours •Low power 48 Hours

Battery Duration with NiMH Battery & 10W bulb: •High power 5 Hours

3 x Ultra-bright LED

Other colours: Black and MIL green Ingress Protection: IP 66

Ingress Protection: IP 66/67

Other colours: Black and MIL green

Other colours: Black and MIL green

Other colours: Black and red

Other colours: Red

Ingress Protection: IP 66/67

Ingress Protection: IP 66/67

Boost power stays on for as long the switch is held n. Large helps to

Wide range of different accessories.

Special versions: EM, CRI-90+ Chargers:
MICA ILC-3 and MICA CR
multi-station chargers.

Chargers:
MICA ILC-3 and MICA CR
multi-station chargers.

Special versions: EM, CRI-90+

Special versions:

Chargers:
MICA ILC-3 and MICA CR
multi-station chargers.

Wide range of different reflectors and other

Chargers:
MICA ILC-3 and MICA CR
multi-station chargers.

Special versions:

Chargers:
MICA ILC-3 and MICA CR
multi-station chargers.

Chargers:
MICA ILC-3 and MICA CR
multi-station chargers.

Chargers:
MICA ILC-3 and MICA CR
multi-station chargers.

Chargers: MICA ILC-4 and N multi-station char

MICA CR argers.

Special versions: EM, CRI-90+, Bli

Special versions: EM, CRI-90+, Blink

NiMH battery 11285_1 NiCd battery 11285

IL-60 MIL Equipped with special infra-red filter

Wide range of different bulbs, reflectors and Infra-Red and UV-lenses and other accessories.

Normal or square light

ed signallign light-unit perated by a separate

Battery Duration with NiMH Battery & 6W bulb:
•High power 8 Hours
•Low power 12 Hours Ingress Protection: IP 65 באיכנומו signalling lamp for railway use. Product number: NiMH battery model 11342 Halogen and red power LED Floats when dropped in water. EM function as a standard. Ingress Protection: IP 66/67 Battery Duration with
NIMH Battery & 10W bulb:
•High power 5 Hours
•Low power 8 Hours Lumens: Up to 550 Lumens Light source: 6W, 10W, 20W or 30W MICA IL-60 SRC Product number: NiCd battery model 11249 sea rescue use.

Dimensions: 215 x 120 x 120 Product number: NiMH battery model 11280 NiCd battery model 11287 handlamp for military, police & border control use

Dimensions: 215 x 120 x 120

MICA IL-60 MIL

MICA IL-800 ZONE 0
ATEX / IECEx / GOST
safety lamp with three
ultra-bright LEDs

Product number: 13800 safety lamp with ultra-bright LED: ZONE 0

Weight: 1400 grams 20W Halogen Lumens: Up to 550 Lumens

Battery Duration with NiMH Battery: Lumens: High 200 Lumens Low 80 Lumens nt source: Ultra-bright l

E

Light source: 3 x Ultra-bright LED

Battery Duration with NiMH Battery: High power 6 h Low power 12

High power 2h 30minHalf power 4 hours

ype of Protection: I 1G Ex ia IIC T4 Ga I 2D Ex tb IIIC 100°C

Ingress Protection: IP 66/67

Gas Zones: 0, 1 Dust Zones: 21 IECEX TUR 11.0008 Certification 10 ATEX 78: Type of Protection: II 2G Ex ib IIC T4 Gb II 2D Ex tb IIIC 100°C IP67 Db

and 2 and 22 ATEX: TÜV 10 ATEX 7879 IECEx: Certification

Gas Zones: 1 and 2 Dust Zones: 21 and 22 IECEX TUR 11.0009

Chargers:
MICA ILC-4 and MICA CR
multi-station chargers.



MICA IL-80 ATEX LED ATEX / GOST certified safety lamp with one ultra-bright LED.

MICA IL-800 ZONE 1 ATEX / IECEX / GOST safety lamps with three ultra-bright LEDs

Product number: 13810

Product numbers: ATEX model 11180_1 GOST model 11195_1

Dimensions: 215 x 120 x 120

Weight: 1100 grams

Weight: 1100 grams

Dimensions: 215 x 120 x 120

Lumens: High 60 Lumens Low 30 Lumens int source: tra-bright LED

Lumens: High 200 Lumens Low 80 Lumens

Battery Duration with NiMH Battery: •High power 10h 30min •Low power 21 hours h power 10h 30min power 21 hours

Type of Protection: II 2 G D Ex eib IIC T4

ATEX: VTT 03 ATEX 027X Certification Battery Duration with NiMH Battery: •High power 6 hours •Low power 12 hours

Ingress Protection: IP 66 Gas Zones: 1 and 2 Dust Zones: 21 and 22

Special versions: Chargers:
MICA ILC-4 and MICA CR
multi-station chargers.

MICA Fast Chargers for ML lamps

Intelligent MICA MLC fast chargers will recharge a depleted battery in less than three hours. the lamp is kept ready for use and will not overcharge the battery. MLC can be fed either directly from 12...24VDC vehicle battery or from the mains $85...\ 265$ VAC using a MICA IL-2 AC/DC adapter. MICA MLC-VAC may be connected directly to the mains. The tight locking clip will keep the lamp firmly in the charger. The MICA MLC charger ensure

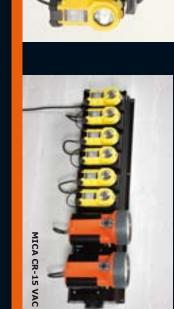
MICA CR-rack charger installation is quick and hassle-free! You can install up to ten MLC chargers into the CR-15 charger holder rack. With the compact

Ask for further information about other MICA Charging systems!



MICA CR-13 VAC





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by our ISO 9001:2008 certificate. meet European standards are approved for use in MICA products. Production quality is guaranteed flashlights are used by top professionals around the world. Only the best quality components that of the leading rechargeable light manufacturers in Europe. Every day hundreds of thousands MICA MICA lamps are designed and manufactured in Finland by Mica Elektro Oy Ltd. The company is one





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MICA ML series

flashing the light beam when there is 15-20 minutes of operating time left. deep discharge of the battery and indicate low battery charge. ML-series lamps warn the user of low battery charge by to-use and maintain. NiMH battery pack gives up to 8 hours of continuous operating time. Advanced electronics prevent Mica ML lamps are robust and compact handlamps for every-day professional use. The entire range is rechargeable, easy-

ML-600 Series

clip. Also available with MIL-green body and with UV- or IR-LEDs. All ML-600 series lamps are equipped with an Emergency matrix is visible over distance of more than 1.5 kilometres. The housing is splash proof and is equipped with steel belt In addition to the main High-Power LED, the ML-601 incorporates twelve red LEDs with a separate switch for signalling purposes and the ML-602 features six red and six green LEDs, with separate switches for controlling the lamp. The signalling Lighting function (EM).



ML-800 ATEX Series

with an easy-to-read LED-bar indicator. Available with 1W or 3W LEDs and with the Emergency Lighting function (EM) MICA offers range of pocket-sized ATEX / GOST -certified safety lamps. ML-800 is the market leader in small rechargeable Ex-lamps. The shock resistant cover is manufactured completely from antistatic plastic and aluminum, its enclosure class is IP 66 and it is equipped with steel belt clip. The advanced electronics of the ML-800 ATEX indicate low battery charge































MICA ML-602
Pocket-size signalling lamp
for railway use. Ultrabright LED and two
signalling units (red/green).

MICA ML-600

Pocket-size lamp for professional use with ultra-bright LED power.

MICA ML-601
Pocket-size signalling lamp
for railway use. Ultra-bright
LED and extremely
powerful red signalling unit.

MICA ML-601 DB Specially tailored for Europe's biggest railway operator.

Product number: 11520_1

Product number: 11521_1

Product number: 11523_1

Product number: 11522_1

Weight: 315 grams

Weight: 275 grams

Dimensions: 57 x 64 x 122

Dimensions: 57 x 64 x 122

Dimensions: 57 x 64 x 122

Weight: 275 gran

Dimensions: 57 x 64 x 122

Dimensions: 57 x 64 x 122

Dimensions: 55 x 64 x 120

Product number: 11522_4

Dimensions: 57 x 64 x 122

Light source: Ultra-bright LED

Battery Duration with L800mAh NiMH battery:

Battery Duration with 1350mAh NiMH battery: 6 hours

Battery Duration with 1350mAh NiMH battery:

3attery Duration with 350mAh NiMH battery:

Battery Duration with 1350mAh NiMH battery: 6 hours

Battery Duration with 1350mAh NiMH battery: 6 hours

Lumens: 40.5 Lumens

Lumens: 40.5 Lumens

Light source: Ultra-bright LED

Light source: Ultra-bright LED

Lumens: 40.5 Lumens

Lumens: 40.5 Lumens

Lumens: 40.5 Lumens

Lumens: 40.5 Lumens

Lumens: 45 Lumens

Light source: 1W LED

Light source: 3W LED

Lumens: 65 Lumens

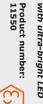
.ight source: Jltra-bright LED

ight source: Iltra-bright LED

Light source: Ultra-bright LED























Battery Duration (NiMH): 7 hours



Type of Protection:

(X) II 2GD
(X) IP 66

Ex op is IIC T4
Ex iD 21 T130°C

Ingress Protection: IP 54

Other colours: Green

Other colours: Green

Other colours: Green

Other colours: Green

All ML-600/601/602 lamps include: Steel belt clip,

strap, EM

tilters

es: colour filters, halogen bulb

ries: colour filters, halogen bulb

ries: colour filters, halogen bulb

Chargers:
MICA MLC and MICA CR
multi-station chargers.

Special versions: other signalling LED colours

Special versions: other signalling LED colours

Gas Zones: 1 and 2	Certification ATEX: VTT 04 ATEX 062X

Dust Zones: 21

Gas Zones: 1 and 2 Dust Zones: 21 and 22

VTT 04 ATEX 062X

Certification

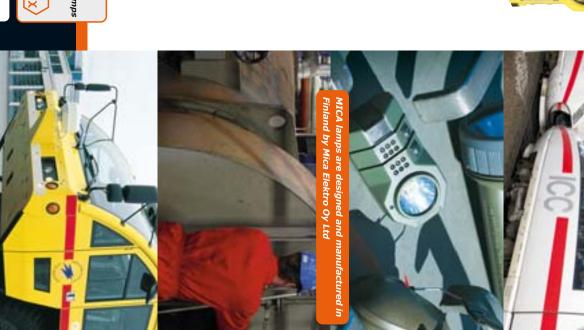
halogen bulb

Chargers:
MICA MLC and MICA CR
multi-station chargers.

Chargers: MICA MLC and MICA CR multi-station chargers. Special versions: EM, Blink

Chargers: MICA MLC and Special version EM, Blink multi-station ch







MICA IL-80 ATEX 1W LED TECHNICAL DATA

MODEL	IL-80 ATEX / EM
Product description	IL-80 ATEX: Rechargeable safety hand lamp
	IL-80 ATEX EM: Rechargeable emergency lamp
Code	Ex II 2GD Ex eib IIC T4 ($T_{amb} = -20^{\circ}C +35^{\circ}C$) /T3
	Ex tD IP66 T135°C
Apparatus standards	EN60079-0 EN60079-7 EN60079-11 EN60079-28
	EN60241-0 EN60241-1
Type of protection	"e" increased safety, "ib" intrinsic safety
Area of classification G (Gas)	Zones 1 and 2
	Gas groups IIA, IIB, IIC
Area of classification D (Dust)	Zones 21 and 22
Temp. classification	T4/T3
Operating temperature	-20°C +40°C, -20°C +35°C T4
Certification	VTT 03 ATEX 027X
	EMC Directive 89/336/EEC
	Directive 94/9/EEC
Enclosure	Antistatic polypropylene
Lens	Toughened glass (5mm)
Beam type	Spot/flood
Light source:	T3/T4 Px 13,5: 1W 6V Philips LED (side emitting) P160S
	Light output 40,5 lm; 7000lx @ 1m
	Lifetime: 50 000h
Power source:	6V 5,0Ah rechargeable NiCd battery
Light duration	Full power output: 24 hours
	Half power output: 40 hours
Ingress protection	IP 66
Weight with battery	1,3 kg
Dimensions	121 x 121 x 216mm
Other features:	- Deep discharge prevention
	- Low battery warning 15 min. before battery runs out
Chargers	Single charger MICA ILC-VAC, ILC + IL-2
	Multi charger MICA CR-C3 for 3 lamps
	Multi charger MICA CR-C5 for 5 lamps
Accessories	Filters: red, green, amber

